

10/820599

☐ 3. Document ID: US 20050227307 A1

L2: Entry 3 of 3

File: DWPI

Oct 13, 2005

DERWENT-ACC-NO: 2005-712647

DERWENT-WEEK: 200573

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Detecting or determining amount of superoxide involves adding hydroethidine; causing hydroethidine and superoxide in sample to react and form 2-hydroxyethidium; and detecting presence or measuring amount of 2-hydroxyethidium, respectively

INVENTOR: KALYANARAMAN, B; ZHAO, H

PRIORITY-DATA: 2004US-0820599 (April 8, 2004)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20050227307 A1	October 13, 2005		020	C12Q001/32

INT-CL (IPC): C07 D 221/22; C12 Q 1/32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
hydroxyethidium and purified	3

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

10/820599

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D.
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
hydroxyethidium and superoxide	2

Display Format: [Change Format](#)

[Previous Page](#)[Next Page](#)[Go to Doc#](#)

10 / 820599

[Sign in](#)[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [Local](#) ^{New!} [more »](#)[Advanced Search](#)
[Preferences](#)**Web**

Results 11 - 14 of about 21 for 2-hydroxyethidium. (0.12 seconds)

Mechanistic similarities between oxidation of hydroethidine by ...

The structure of this product was recently determined as the **2-hydroxyethidium** cation (2-OH-E⁺) (Zhao et al., Proc. Natl. Acad. Sci. USA 102:5727; 2005). ...

www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=16140206&dopt=Citation - [Similar pages](#)

[[More results from www.ncbi.nlm.nih.gov](#)]

Quarles & Brady LLP

20050227307 - **2-hydroxyethidium**, methods of preparation and uses thereof

20050227547 - Connector for cable eyes 20050228544 - Distributed control system for ...

www.freshpatents.com/Quarles-Brady-LLP-cndirq.php - 67k - [Cached](#) - [Similar pages](#)

PNAS | Ustilago.org

PNAS. Proceedings of the National Academy of Sciences Proceedings of the National Academy of Sciences RSS feed -- current issue ...

ustilago.org/aggregator/sources/13?from=320&PHPSESSID=10f23aaeecebd48f9e3e2f1f86e05962 - 41k - [Supplemental Result](#) - [Cached](#) - [Similar pages](#)

Down-regulation of normal human T cell blast activation: roles of ...

Originally published online as doi:10.1189/jlb.0904514 on January 14, 2005.

published online before print January 14, 2005 ...

jleuk.highwire.org/cgi/content/full/77/4/568 - 126k - [Supplemental Result](#) - [Cached](#) - [Similar pages](#)

In order to show you the most relevant results, we have omitted some entries very similar to the 14 already displayed.

If you like, you can repeat the search with the omitted results included.

Result Page: [Previous](#) [1](#) [2](#)[Search within results](#) | [Language Tools](#) | [Search Tips](#)[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2005 Google

101820599

[Sign in](#)[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [Local](#) [New!](#) [more »](#)[Search](#)[Advanced Search](#)
[Preferences](#)**Web**Results 1 - 10 of about 27 for **hydroxyethidium**. (0.38 seconds)Did you mean: [**hydroethidium**](#)Detection and characterization of the product of hydroethidine and ...

By using mass spectral and NMR techniques, the chemical structure of this product was determined as 2-hydroxyethidium (2-OH-E+). ...

www.pnas.org/cgi/content/full/102/16/5727 - [Similar pages](#)This Week in PNAS -- 102 (16): 5637 -- Proceedings of the National ...

... a specific fluorescent product different from E+, 2-hydroxyethidium (2-OH-E+).

... [in this window] · [in a new window], 2-Hydroxyethidium (2-OH-E+). ...

www.pnas.org/cgi/content/full/102/16/5637 - [Similar pages](#)[[More results from www.pnas.org](#)]Detection and characterization of the product of hydroethidine and ...

Keywords: free radical, reactive oxygen species, 2-hydroxyethidium, EPR, spin trapping. Top. Abstract. Materials and Methods. Results. Discussion. Summary ...

www.pubmedcentral.nih.gov/articlerender.fcgi?artid=556312 - [Similar pages](#)This Week in PNAS

... with HE to form a specific fluorescent product different from E+,

2-hydroxyethidium (2-OH-E+). ... Figure 1 · Figure 1. 2-Hydroxyethidium (2-OH-E+). ...

www.pubmedcentral.nih.gov/articlerender.fcgi?artid=556305 - [Similar pages](#)[PDF] SFRBM 2005 - 12th Annual Meeting of the Society for Free Radical ...File Format: PDF/Adobe Acrobat - [View as HTML](#)

Formation of 2-hydroxyethidium, the Product of Hydroethidine and. 01 - Free Radical Chemistry. Balaraman Kalyanaraman. Thurs, Nov 17 ...

www.sfrbm.org/pdf/SFRBM2005Presentations.pdf - [Similar pages](#)www.freshpatents.com/2-hydroxyethidium-methods-of-...[Similar pages](#)Quarles & Brady LLP

20050227307 - 2-hydroxyethidium, methods of preparation and uses thereof

20050227547 - Connector for cable eyes 20050228544 - Distributed control system for ...

www.freshpatents.com/Quarles-Brady-LLP-cndirq.php - 67k - [Cached](#) - [Similar pages](#)Down-regulation of normal human T cell blast activation: roles of ...

ROS generation was analyzed by staining with 2-hydroxyethidium and flow cytometry, and results corresponded to the percentage of cells positive for ROS ...

www.jleukbio.org/cgi/content/full/77/4/568 - [Similar pages](#)Detection and characterization of the product of hydroethidine and ...

By using mass spectral and NMR techniques, the chemical structure of this product was determined as 2-hydroxyethidium (2-OH-E(+)). ...

www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=15824309&dopt=Citation -[Similar pages](#)

Mechanistic similarities between oxidation of hydroethidine by ...

The structure of this product was recently determined as the 2-hydroxyethidium cation (2-OH-E+) (Zhao et al., Proc. Natl. Acad. Sci. USA 102:5727; 2005). ...

www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=16140206&dopt=Citation - [Similar pages](#)

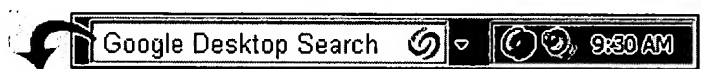
[[More results from www.ncbi.nlm.nih.gov](#)]

Did you mean to search for: **hydroethidium**

Try your search again on [Google Book Search](#)

Google ►

Result Page: 1 2 [Next](#)



Free! Instantly find your email, files, media and web history. [Download now.](#)

[Search](#)

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2005 Google

[Sign in](#)[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [Local](#) [New!](#) [more »](#)

fremy salt and hydroethidine

Search

[Advanced Search](#)
[Preferences](#)

The "AND" operator is unnecessary -- we include all search terms by default. [\[details\]](#)

Web

Results 1 - 4 of about 5 for fremy salt and hydroethidine. (0.36 seconds)

Mechanistic similarities between oxidation of hydroethidine by ...

... between oxidation of hydroethidine by Fremy's salt and superoxide: stopped-flow

... The reaction between HE and the Fremy's salt should provide a facile ...

www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=16140206&dopt=Citation -[Similar pages](#)Medical College of Wisconsin - Publications

Zielonka J, Zhao H, Xu Y, Kalyanaraman B. Mechanistic similarities between oxidation of hydroethidine by Fremy's salt and superoxide: Stopped-flow optical ...

www.mcw.edu/display/router.asp?docid=10365 - 47k - [Cached](#) - [Similar pages](#)Medical College of Wisconsin - Publications

See the Abstract; Zielonka J, Zhao H, Xu Y, Kalyanaraman B. Mechanistic similarities between oxidation of hydroethidine by Fremy's salt and superoxide: ...

www.mcw.edu/display/router.asp?docid=1574 - 63k - Dec 9, 2005 - [Cached](#) - [Similar pages](#)Medical College of Wisconsin - Publications

Zielonka J, Zhao H, Xu Y, Kalyanaraman B. Mechanistic Similarities Between Oxidation of Hydroethidine by Fremy's Salt and Superoxide: Stopped-Flow Optical ...

www.medicalcollegeofwisconsin.org/display/router.asp?docid=1574 - 58k - Supplemental Result -[Cached](#) - [Similar pages](#)

In order to show you the most relevant results, we have omitted some entries very similar to the 4 already displayed.

If you like, you can repeat the search with the omitted results included.

Try your search again on [Google Book Search](#)



Free! Instantly find your email, files, media and web history. [Download now.](#)

fremy salt and hydroethidine

Search

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#)[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2005 Google



fremy salts and acetonitrile and phosphate

Search

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)The "AND" operator is unnecessary -- we include all search terms by default. [\[details\]](#)

Scholar

Results 1 - 5 of 5 for fremy salts and acetonitrile and phosphate. (0.07 seconds)

Institute of Paper Science and Technology Atlanta, Georgia

M Zawadzki, A Ragauskas - smartech.gatech.edu

... salts, interfere with solid-state ^{31}P -NMR analysis of ... prepared by Fremy's reagent oxidation according to ... conversion to the cyclic phosphate ester (analogous ...[View as HTML](#) - [Web Search](#) - [smartech.gatech.edu](#)[book] Synthetic Chemistry of Stable Nitroxides

LB Volodarsky, VA Reznikov, VI Ovcharenko - 1993 - print.google.com

... It is also worthwhile to note the growing use of oxoammonium salts derived from piperidine and pyrrolidine nitroxides as oxidizers in different systems ...

[Cited by 31](#) - [Web Search](#) - [ecommerce.tandf.co.uk](#) - [Library Search](#)Palladium-Catalyzed Cross-Coupling in Aqueous Media: Recent Progress and Current Applications

KH Shaughnessy, RB DeVasher - Current Organic Chemistry, 2005 - ingentaconnect.com

... in water/TBAB than in polar organic solvents, such as DMF, acetonitrile, or NMP ... halides could be accomplished in water by using alkylammonium salts as promoters ...

[Web Search](#)Separation of the monoiodinated isomers of insulin by high-performance

FD Admin, TX Dallas, NDIND Campus, M Katyal, IC ... - springerlink.com

Page 1. Referate 3. Biochemische und klinische Analyse (Einzelheiten siehe Text). Die Entwicklung erfolgt fiber eine Strecke von ...

[Web Search](#)Bibliography Section

NT ABDEL-GHANI, AL EI-ANSARY, JR ALLAN, AD PATON, ... - Ber. Bunsen Ges. Phys. Chem, 1987 - springerlink.com

Page 1. Bibliography Section ABDEL-GHANI, N. T., EI-ANSARY, A. L., SALEM, AA (Univ. Cairo Fac. Sci, Dept. Chem. Giza, Egypt.): Thermogravimetric ...

[Web Search](#) - [springerlink.com](#)

fremy salts and acetonitrile and phosphate

Search

[Google Home](#) - [About Google](#) - [About Google Scholar](#)

©2005 Google